Pocket Notebook, PN-82-09-04

This pocket notebook dates from September 1882. All of the entries are by Edison. Included are drawings of cut-offs and electrical governors for the steam engines at the Pearl Street central station; drawings of armature windings and connections; and notes about lamps, including filament and vacuum experiments. There are also miscellaneous notes by Edison to himself relating to the electric light; miscellaneous calculations; and a note to Miller F. Moore about an isolated plant at Jas. Aikman and Company. The pages are unnumbered. Approximately 50 pages have been used. Several pages have been torn out of the book.

60 Lights. —

2 —

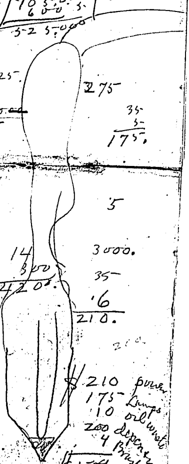
1 25.

14
25
70
28 0
35 300

3000

600 | 105,000
6000 5.
525,000

| 1



525.

275

600 | 105,000
175

35
5
175.

64

5

14
300
4200.

3000.
35
.6
210.

oil

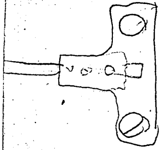
200.

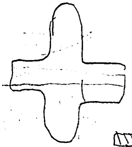
210 power
175 Lamps
10 oil waste
200 depreciation
4 Brushes interest
$599

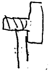
2000.

200

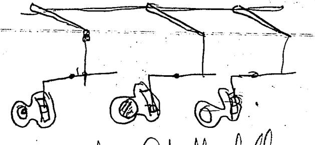
PN-82-09-04
#15 # Stack 6 Box 3



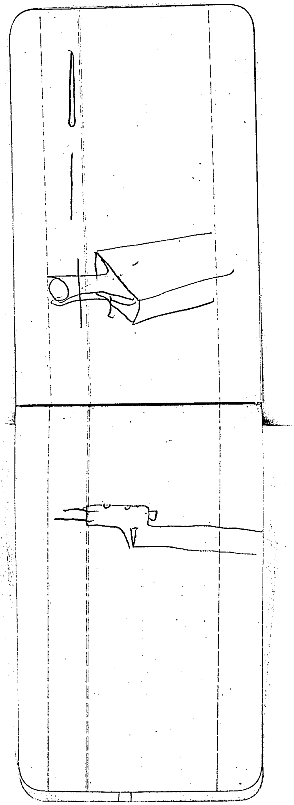




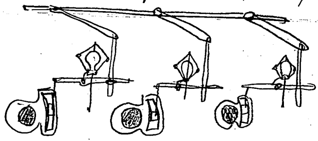
~~Aug~~ Sept 6 1882



Connecting Cut offs of all Engine together at Station



Sept 8 1882

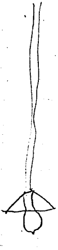


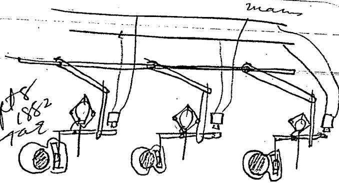
governing or connecting all the governors together

Moore.

next week - go to Slon see
Mr A = 25 - cliff street
10 am.

Please send man
to Jas Aikman & Co
Newark to Estimate
Cost wiring & putting
60 Light machine —
I told him that
would cost 2000.
he furnishes power —
They want Electric
Soldering irons, Insull
[illegible] — Edison





Sept 8 1882
TAE

Electrically Connecting
governors at all End

Lampfactory

Heat 1st then dry then heat

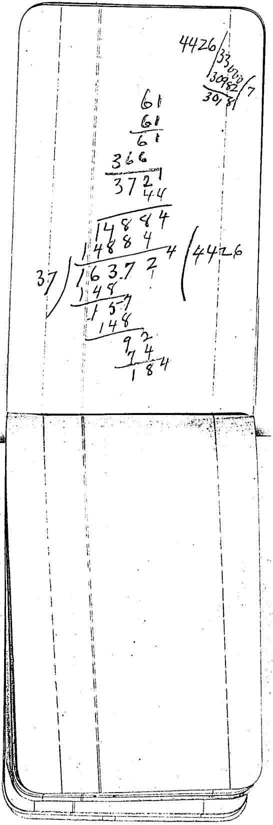
Get ground off -

P to Hg :

N to Hg -

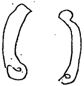
Turn Lamps Edgeways

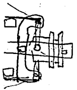
fix row so all same polarity

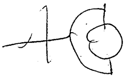


4426 / 33600
30982 / 7
3018

61
61
61
366
3721
44
14884
14884 4
37) 163.72 (4426
148
157
148
92
74
184







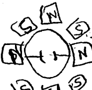
22

7-

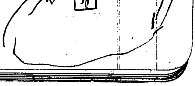
5 - 48
15
48
20
30
40
20
221

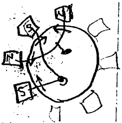
12) 221 (18
12
101

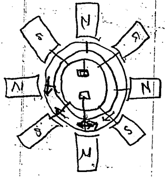
26) 350 (94
234
116
104



40) 250 (







4000
16000

26
3
78
350
3900

20.

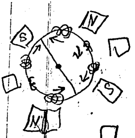
234
27300

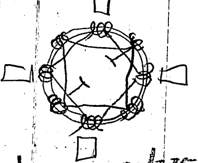
35
3
105
250
5250
210
26250

3600/20000
18000
20000

555
35

36
3
108
230
5400
216
27000





12 | 27090 | 2250
24
30
24
60
60

40
3
120
250
6000
240
30000

12 | 3000 | 25
24
60

27 | 2400 | 88
216
24

2400 | 2700 | 1.1
2400
3000

42
3
126
250
6300
252
12) 31500 (2625
24
75
72
30
24
60

2625 ft 42 dia

26
3
78
250
3900
156
12) 19500 (1
12

1400) 2625 (1.8
1400
12250
11200
1050

78
350
3900
234
12) 27300 (2275
24
33
24
90
84
60

1800) 2625 (1.
1800
8250

2275

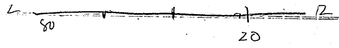
2400

1200) 2275 (1.9
1200
10750
10800

Sept 4 1882.

Trying Expmt
Rushing Turpentine
Vapor through
lamp & Condensing
by Freezing mixture
to make Vacuum
Vac not very high
but will do.

Edison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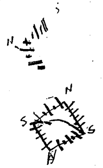


26.

12 feet long.

11.

$\begin{array}{r}54\\2\\\hline 108\end{array}$

$\begin{array}{r}26\\3\\\hline 78.\end{array}$

$\begin{array}{r}30\\3\\\hline 90.\end{array}$

9-

$\begin{array}{r}50\\3\\\hline 150.\end{array}$

24.

4

$\begin{array}{r}40\\3\\\hline 120.\end{array}$

385 NP

14
14
56
14
196
26
1176
392
~~200~~) 5096

250

1300
12) 6500 (541
600
580
20

33 —

196
120
3920
1960
23520
~~26~~

541

23520
541
23520
94080
117600
1272432~~0~~ (385

33) 2265~~7040~~ (686
198
285
264
217
198

18
18
144
18
324
120
6480
3248
38583
11664
3100 40
19440 0 40
2265-7 0 14

385
2
770

250
28
2000
500
12) 7000 (583
60
100
96
4

8

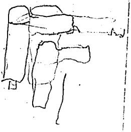
45000
1200
9000000
45000
54000000

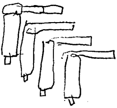
12
100
1200.

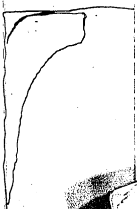
4500) 540000000000 (120000
4500
9000
9000
0

16) 12000 (~~8~~750
112
80
80
0

440) 750 (1.7
440
310
0







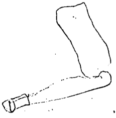
64

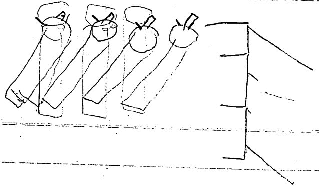
100.

5000
5000
2~~000~~ | 2,500,000~~000~~
1,250.000

100
100
10,000

1250000
10000
12500,000,000.





20
20
400

75
4
300.
60
18000

20

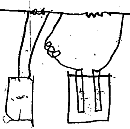
400
120
300
36000

3000

400'

33000
400

3~~000~~ | 13,200,~~000~~
4400
3000
13,200,000



1000

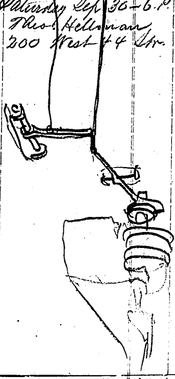
18
16
08
8
288
30
8640

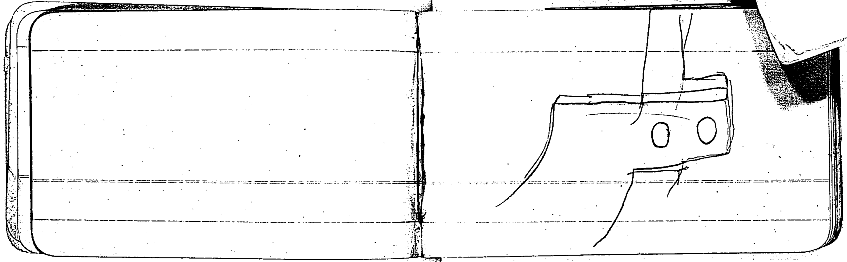
Sept 6 1882

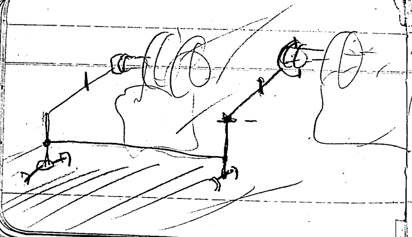
Tried Experiment of
twisting together Ramie
& flax together while
passing very slowly
through [illegible]
Sal & then through
die also ammonia &
dry, works gd—

also tried twisting
several fibres Ramie
also flax through
thimble hot graphite then
scraping all off an
stretching & baking
gently then. [illegible]
Coat = winding
thickened ends & japanning
makes good fibre

Saturday Sep 30 – 6. P. M
Theo. Hellmann
200 West 44 Str.







Pressure regulator,

Ascertain whats been done about Colombo order,

what about 500 Light K.

Ask Greenfield if he dont think people would buy wall switches to turn off whole chandlier where handy

---

Clock for turning off lights at certain intervals Sunday all night lights for military

Write Moore about belting all
Engs to one shaft & also
dynamos with Clutches,
Spk abt Mason C not wkg
certain Condition -

Write Andrews & Dean
about making 80 bar
Comutr & 4 brushes,

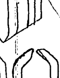
See about Depretz =

Spkg Etty about my safety
Catch burning - bad
Contact =

Goddard about chg
also inspctn Statistic book.

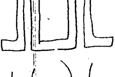
Thing for turning off Comutr
Steel screw in upright on
Com —

Pay Chas Pratt Menlo Bill
Very urgent

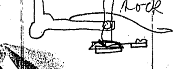
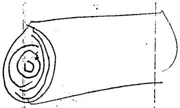
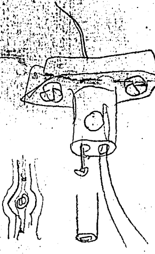
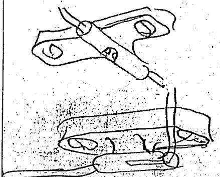


cut in 5 slots

Cut notch so piece has little swing



Thicken board bigger handle,

see if can shunt Bks with heavy split plug